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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/728,088	12/05/2003	Woon-Phil Baik	2689-8 7303 EXAMINER	
	7590 04/12/2005			
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD 8TH FLOOR		TRUONG, DUC		
			· ART UNIT	PAPER NUMBER
ARLINGTON	VA 22201-4714		1711	
			DATE MAILED: 04/12/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		W.	1
	Application No.	Applicant(s)	
	10/728,088	BAIK ET AL	
Office Action Summary	Examiner	Art Unit	
	Duc Truong	1711	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of 16 NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
<i>,</i> —	action is non-final.		
3) Since this application is in condition for allowar			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o			
Application Papers			
9) The specification is objected to by the Examine	ег.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the I	Examiner.	
Applicant may not request that any objection to the	* * *		
Replacement drawing sheet(s) including the correct	•		
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action of form PTO-152.	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>051904</u> .	_	atent Application (PTO-152)	

Application/Control Number: 10/728,088

Art Unit: 1711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chem Abstract 136: 200547 or 135: 107664.

136: 200547 discloses poly(3,4-ethylenedioxythiophene), PEDOTh(Ni), and its hexyl derivative, PEDOTh-C6 (Ni), have been prepared by organometallic dehalogenation polycondensation of 2,5-dichloro-3,4-ethylenedioxythiophene and its hexyl derivative with a zerovalent nickel complex in organic solvents.

The reference further discloses the product in the form of repeating unit derived from the claimed monomer which is 2,5-dihalothiophene.

135: 107664 discloses that oligo(3,4-ethylenedioxythiophene)s are synthesized via polycondensation of the dibromo monomer in the presence of NiBr2 (bpy) catalyst in organic solvent such as N,N-dimethylacetamide.

The reference further discloses the product in the form of repeating unit derived from the claimed monomer which is 2,5-dihalothiophene.

The disclosures of the references differ from the instant claims in that they do not disclose the claimed acid catalyst with specific components.

Application/Control Number: 10/728,088

Art Unit: 1711

However, they do disclose the use of a nickel complex having the same functionality with the claimed acid catalyst. Therefore, it would have been obvious to one of ordinary skill in the art to select the nickel complex from the reference to replace the claimed acid catalyst since they have been shown to be effective in a similar system and thus would have been expected to provide adequate results. There is no showing of unexpected results derived from said selection.

Claim 6-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites the limitation "the solvent" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081.

The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/728,088 Page 4

Art Unit: 1711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUCTRUONG PRIMARY EXAMINER